

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1984	257/e33.008,e33.023,e33.025,e33.027,e33.028,e33.03.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 09:57
S2	1813	S1 and (LED or (light adj emit\$4 adj (device or diode)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 09:58
S4	36	S3 and (esd or (electr\$4 adj static adj discharg\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 10:00
S5	74	("5146465"   "5306662").PN. OR ("6172382").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 10:15
S3	1371	S2 and (GaN or (gallium adj nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:25
S7	1813	S6 and (LED or (light adj emit\$4 adj (device or diode)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:26
S6	1984	257/e33.008,e33.023,e33.025,e33.027,e33.028,e33.03.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:26
S8	1230	S7 and (In\$Ga\$N or Ga\$In\$N or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:27
S12	604	S11 and (MQW or (quantum adj well)) and (lattice or superlattice or (super adj lattice))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:34
S11	1081	S7 and (InGaN or GaInN or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:34
S10	680	S9 and (MQW or (quantum adj well)) and (lattice or superlattice or (super adj lattice))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:34
S9	1230	S7 and (In\$Ga\$N or Ga\$In\$N or InGaN or GaInN or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:34
S13	29	("5278435"   "5290393"   "5693963").PN. OR ("5903017").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 11:30
S14	18	("5777350"   "5889806"   "5903017"   "5923690"   "5932896"   "5987048"   "6120909"   "6121639").PN. OR ("6285696").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 12:54

S15	7	("5585648"   "5751013"   "5793054"   "5959307"   "6072197"   "6078064"   "6285696").PN. OR ("6670647").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 15:02
S17	662	hexagonal with (pit or dislocation or defect)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:47
S16	7	("5585648"   "5751013"   "5793054"   "5959307"   "6072197"   "6078064"   "6285696").PN. OR ("6670647").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:47
S19	1	S17 same S18	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:49
S18	3688	ingan with (MQW or layer or multi\$layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:49
S22	166	S17 same (MQW or layer or multi\$layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:56
S21	3	S17 same (ingan and (MQW or layer or multi \$layer))	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:56
S23	11	"6370176"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 17:03
S26	7579	S24 and S25	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:12
S31	559	S24 same S30	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S30	59330	((alternat\$4 or varying or rais\$3 or lower\$3 or chang \$3) with temperature) with layer	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S28	718	S26 and mqw	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S27	1074	S24 same S25	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S25	139947	((alternat\$4 or varying or rais\$3 or lower\$3 or chang \$3) with temperature) same layer	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S32	174	S31 and mqw	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:14
S29	243	S27 and mqw	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:14
S24	177615	(In\$\$\$Ga\$\$\$N or Ga\$\$In\$N or InGa\$N or GaIn\$N)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:25
S34	29	S33 same (dislocat\$4 or defect or imperfect\$5 or pits or hexagonal)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:52
S36	25	S33 and S35	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:53

S35	706	(dislocat\$4 or defect or imperfect\$5 or pits) with hexagonal	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:53
S37	1	"7193246"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 09:43
S38	5	yellow near2 band near2 intensity	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 13:47
S20	167	S17 same (ingan or (MQW or layer or multi\$layer))	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 13:47
S39	2	("20050263779"   "20060076574").PN. OR ("7180096").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 08:32
S40	3840	257/13,14,103,e33.008, e33.023,e33.025.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:04
S33	531	(In\$\$Ga\$\$N or Ga\$\$In\$N or InGaN or GaInN) same (mqw or (multi\$3 adj layer) or multi\$layer) same (((n adj type) or n\$type) near3 (GaN or (gallium nitride)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:05
S41	1983	(In\$\$Ga\$\$N or Ga\$\$In\$N or InGaN or GaInN) same (mqw or (multi\$3 adj layer) or multi\$layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:10
S43	387	S40 and S41	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:13
S42	1983	(In\$\$Ga\$\$N or Ga\$\$In\$N or InGaN or GaInN) same (mqw or (multi\$3 adj layer) or multi\$layer)S40 and S41	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:13
S44	31	("5146465"   "5291507"   "5656832"   "5777350"   "5834331"   "5900650"   "6111277"   "6118801"   "6147364"   "6153894"   "6281522").PN. OR ("6337493").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:21
S45	47	257/631.ccls. and nitride	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 10:27
S46	9041	blue near2 LED	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 14:53
S47	173506	(In\$Ca\$N or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 15:11
S49	78	S46 and S47 and S48	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 15:12
S48	22521	esd or (electro\$static near discharg\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 15:12
S50	2	("6657300").PN. OR ("6872986").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 15:32

S51	45	(temperature with In with content) same In\$ga\$N	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 16:22
S52	12	("5274251"   "5476811"   "5559058"   "5592501"   "5646953"   "5670798"   "5859864"   "5902393"   "5995527"   "6072189"   "6156581").PN. OR ("6309459").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 17:20
S53	16	("5650198").PN. OR ("6017774").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 17:21
S55	10	(esd or (electro\$static near discharg\$3)) with super \$lattice	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:28
S54	173506	(In\$Ga\$N or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:28
S59	10	S55 and S56	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:29
S57	1458	S54 with active with (mwq or quantum)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:29
S56	6365	S54 with active	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:29
S60	5	S55 and S57	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:30
S64	29	S62 and S63	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:37
S63	9041	blue near2 LED	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:37
S62	171	S57 and S61	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:37
S61	387	S54 with super\$lattice	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 18:37
S65	186489	(In\$\$\$Ga\$\$\$N or Ga\$\$In\$N or InGa\$N or GaInN(indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:01
S70	16	S69 and S65	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:02
S69	16	S66 and S67	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:02
S68	0	S66 same S67	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:02
S67	6250	super\$lattice	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:02
S66	124	((hex or hexagon or hexagonal) near2 pit)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:02
S71	52	pit with density with cm	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:19
S72	12	S65 and S71	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:20

S73	8	S66 and S71	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:23
S74	1	(intensity near2 yellow) with (intensity near2 (gan or (gallium near2 nitride))) with ratio	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:28
S78	1	(intensity near2 yellow) and (intensity near2 (gan or (gallium near2 nitride))) and ratio	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:29
S77	1	(intensity near2 yellow) same (intensity near2 (gan or (gallium near2 nitride))) same ratio	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:29
S76	1835561	(intensity near2 yellow) same (intensity near2 (gan or (gallium near2 nitride))) samee ratio	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:29
S75	1835620	(intensity near2 yellow) same (intensity near2 (gan or (gallium near2 nitride))) samer ratio	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:29
S79	4	(band near2 yellow) and (intensity near2 (gan or (gallium near2 nitride))) and ratio	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:30
S81	5	(band near2 yellow near2 intensity)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:34
S80	1	(band near2 yellow near2 intensity)with ratio	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 14:34
S84	27	\1063711	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/19 10:37
S83	0	ep1063711	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/19 10:37
S82	0	ep1063711	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/19 10:37
S86	2	super\$lattice with (ingan or gan) with pit	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/27 14:22
S85	1	super\$lattice with ingan with gan with pit	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/27 14:22
S87	15	super\$lattice with (ingan or gan) same pit	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/27 14:23

S88	16	("20020084452"   "20030001161"   "20030006418"   "20030016863"   "20030123164"   "5393993"   "5523589"   "6015979"   "6121634"   "6201262"   "6329667"   "6459100"   "6664560"   "6693303"   "6734003"   "6740906").PN. OR ("7446345").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/27 14:32
S89	25	("20020093020"   "20030006418"   "4866005"   "4918497"   "5027168"   "5393993"   "5523589"   "5585648"   "5661074"   "5874747"   "5939732"   "6051849"   "6177168"   "6210987"   "6306675"   "RE34861"). PN. OR ("6664560").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/27 14:43
S90	15	gan with pit with interface	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/17 14:50
S91	25	gan with pit with (ingan or gainn or ganin)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/17 15:12
S92	135	pit with (in\$ga\$n or ga\$n \$n or ga\$n\$n or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 15:13
S93	45	S92 and (MQW or (multiple near2 quantum near2 well) or super\$lattice)	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 15:14
S94	16	("20020084452"   "20030001161"   "20030006418"   "20030016863"   "20030123164"   "5393993"   "5523589"   "6015979"   "6121634"   "6201262"   "6329667"   "6459100"   "6664560"   "6693303"   "6734003"   "6740906").PN. OR ("7446345").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 15:33
S95	5	("2007/0122994").URPN.	USPAT	OR	ON	2010/04/28 15:55
S99	0	"11 563799"	USPAT	OR	ON	2010/04/28 15:56
S98	0	"11563799"	USPAT	OR	ON	2010/04/28 15:56
S97	0	"11/563799"	USPAT	OR	ON	2010/04/28 15:56

S96	0	"11563799"	USPAT	OR	ON	2010/04/28 15:56
S101	2	("20020084452"   "7193246").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 15:57
S100	1	("20020084452"   "7193246").PN.	USPAT	OR	ON	2010/04/28 15:57
S102	35	pit with density with "10. sup.8"	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 16:15
S103	90	S92 not S93	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 16:30
S104	5	("6051849"   "6500747"   "6537839"   "6555846"). PN. OR ("7105865").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 16:38
S105	350	pit with per with area	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 16:44
S106	26	S105 and (in\$ga\$n or ga\$in \$n or ga\$n\$n or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 16:45
S107	9	"5345463"	US-PGPUB; USPAT	OR	ON	2010/10/18 15:35
S109	36	("20020053676"   "5294833"   "5351255"   "5366927"   "5393993"   "5409859"   "5523589"   "5585648"   "5661074"   "5670798"   "5679152"   "5679965"   "5684309"   "5777350"   "5818072"   "5874747"   "6046464"   "6133589"   "6150672"   "6153010"   "6153894"   "6156581"   "6201262"   "6238945"   "6337493"   "6459100"   "6664560"   "6717185"   "6734033"). PN. OR ("6958497").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/10/19 15:03
S108	38	10/140796	US-PGPUB; USPAT	OR	ON	2010/10/19 15:03
S110	497	257/15,e29.072.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/10/19 15:11
S111	38	S110 and ((active near2 layer) with MQW)	US-PGPUB; USPAT; USOCR	OR	ON	2010/10/19 15:12
S115	599	S114 and (MQW or (quantum adj well)) and (lattice or superlattice or (super adj lattice))	US-PGPUB; USPAT; USOCR	OR	ON	2010/10/19 15:18
S114	887	S113 and (InGaN or GaInN or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2010/10/19 15:18

S113	1352	S112 and (LED or (light adj emit\$4 adj (device or diode)))	US-PGPUB; USPAT; USOCR	OR	ON	2010/10/19 15:18
S112	1508	257/e33.008,e33.023, e33.025,e33.027,e33.028, e33.03.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/10/19 15:18
S116	97	super\$lattice and mqw and pit	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 15:15
S119	25	S117 and (un\$doped with super\$lattice)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 15:16
S118	83	S117 and un\$doped	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 15:16
S117	138	super\$lattice and (multiple near2 quantum near2 well) and pit	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 15:16
S120	514	257/15,e29.072.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 16:23
L1	1641	257/e33.008,e33.023, e33.025,e33.027,e33.028, e33.03.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 23:58
L2	78	1 and (un\$doped with super\$lattice)	US-PGPUB; USPAT; USOCR	OR	ON	2011/02/22 23:59

### EAST Search History (Interference)

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